

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

ADRIAN QUARRY, L.L.C.

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of

limestone in the state of Missouri. The extent of the

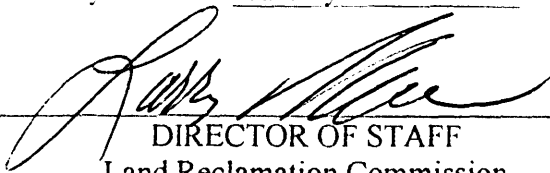
Proposed mining operation(s) will be on 13 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Amendment

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Bates	33, 34	42N	32W	0	5	13	Adrian Rock #1	1841

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 29th day of January 2004



DIRECTOR OF STAFF
Land Reclamation Commission

Permit No. 0879T-A1

Effective Date 01/29/2004

Expiration Date 05/06/2004

NO 780-1122 (6-95)

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MISSOURI DEPARTMENT OF NATURAL RESOURCES

LAND RECLAMATION COMMISSION

PERMIT APPLICATION FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND
RECLAMATION COMMISSIONP.O. BOX 178
JEFFERSON CITY, MO 65102-0178

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL		DATE	
Adrian Quarry, LLC		December 2, 2003	
ADDRESS	CITY	STATE	ZIP CODE
Route 2, Box 468A	Adrian	MO	64720
CONTACT PERSON		TELEPHONE NUMBER	
Mr. Carl Ferguson, General Manager		660-679-7170	
Check any that apply:			
<input type="checkbox"/> New Permit <input checked="" type="checkbox"/> Permit Amendment <input type="checkbox"/> Permit Revision <input type="checkbox"/> Permit Expansion			
SITE NAME OR NUMBER	ACREAGE	LOCATION: COUNTY, SECTION, TOWNSHIP, RANGE (East or West)	
1. Adrian Quarry (Site #1)	5 (new)	S-33/34, T-42N, R-32W, Bates County	
2.			
3.			
4.			
5.			
6.			
7.			
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10.			
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12.			
13.			
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16.			
17.			
18.			
19.			
20.			
ATTACH ADDITIONAL SHEETS IF NECESSARY			
SIGNATURE OF APPLICANT		TITLE	DATE
<i>Carl Ferguson</i>		<i>Owner</i>	1-12-04
Appeared before me this _____ day of _____, 20____, _____ to me personally known, who executed the above as their free will and deeds.			
NOTARY PUBLIC EMBOSSE SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)	
	MISSOURI	BATES	
SUBSCRIBED AND SWORN BEFORE ME, THIS		USE RUBBER STAMP IN CLEAR AREA BELOW	
12th DAY OF January 20 04			
NOTARY PUBLIC SIGNATURE	MY COMMISSION EXPIRES		
<i>Julie A. Gilman</i>	6-10-05		
NOTARY PUBLIC NAME (TYPED OR PRINTED)			
Julie A. Gilman			
FOR DEPARTMENT USE ONLY: APPROVED BY	DATE APPROVED	PERMIT NUMBER	EXPIRATION DATE
<i>Michael J. Whitt</i>	1-29-04	0879T	5-6-04

ATTACH FEES AND BONDING WORKSHEET.

PERMIT APPLICATION FOR INDUSTRIAL MINERAL MINES FEES AND BONDING WORKSHEET

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P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL	DECLAMATION COMMISSION DATE
Adrian Quarry, LLC	December 2, 2003

FEES: COMPLETE SECTION I OR SECTION II

SECTION 1. FEES: Open pit operators and those mining more than five thousand (5,000) tons of sand and/or gravel:

1. To compute the site fee complete the columns and lines below:

[illegible]

2. Acreage fee: \$5 X <u>5 new</u> number of acres bonded	\$25.00
3. Annual permit fee:	<u>\$500.00</u> N/A
4. Total Fee: Add Totals from 1, 2, and 3	\$25.00
NOTE: If Total Fee exceeds \$2,500.00 then pay only <u>\$2500.00</u>	

SECTION II. FEES: Sand and/or gravel operators mining less than five thousand (5,000) tons per year:

1. Annual permit fee:----- **\$300.00**

III. BONDING - for all EXCEPT In-Stream mine sites:

A. For sand and gravel operators mining less than five thousand (5,000) tons/year:

Number of new acres _____ X \$500/acre ----- **\$N/A**

B. For ALL other open pit operations:

Minimum per permit ----- **\$8,000.00**

Acreage over 8 acres 5 _____ X \$500/acre ----- **\$2,500**

TOTAL BONDING REQUIRED ----- **\$10,500**

☐ Check here if adequate bonding is already posted.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

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To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER		PERMIT NUMBER		MISSOURI LAND RECLAMATION COMMISSION	
Adrian Rock #1		0879			
COMPANY NAME					
Adrian Quarry, LLC					
COUNTY	1/4 SECTION		SECTION		
Bates	NW/4 and SW/4 SE/4		34 33		
TOWNSHIP	RANGE		ACRES		
T42 N	R32 W		306		
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)					
MINERAL COMMODITY			ESTIMATED TONS/YEAR (FOR GRAVEL SITES)		
Limestone			N/A		

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)		
Allen L. Finklang		
ADDRESS		
Rt. 2, Box 424		
CITY	STATE	ZIP CODE
Adrian	MO	64720
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
<input type="checkbox"/> MINERAL DEED		June 2003
<input checked="" type="checkbox"/> LEASE		
<input type="checkbox"/> VERBAL AGREEMENT		
<input type="checkbox"/> WARRANTY DEED		
<input type="checkbox"/> OTHER (DESCRIBE):		

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
Allen L. Finklang (Landowner)		
ADDRESS		
Rt. 2, Box 424		
CITY	STATE	ZIP CODE
Adrian	MO	64720
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
<input type="checkbox"/> MINERAL DEED		June 2003
<input checked="" type="checkbox"/> LEASE		
<input type="checkbox"/> VERBAL AGREEMENT		
<input type="checkbox"/> WARRANTY DEED		
<input type="checkbox"/> OTHER (DESCRIBE):		

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

APR 05 2001

Adrian Rock

MISSOURI LAND
RECLAMATION COMMISSIONSITE DESCRIPTION

The quarry site is located west of Adrian, in the northwest part of Bates County immediately north of State Highway 18. Bates County is in the Cherokee Prairie major land resource area with local topography characterized as a slightly dissected plain. The plain is interrupted by a series of ridges that have southeast facing escarpments.

The majority of the quarry area is drained by tributaries to Knob Creek which flows southeast to the Marias des Cygnes River and eventually into the Osage River. A small area in the northern part of Section 34 is drained by tributaries to Mormon Fork located in the Grand River Watershed.

Elevation in the county ranges from 1,053 feet to the northwest part of the county to 698 feet along the Osage River. Elevation at the quarry site ranges from \pm 930 feet to 1000 feet.

Mineral resources in the county include coal and limestone, both of which are currently being mined. Coal is mined mostly in the western part of the county. Limestone is quarried throughout the county and is used as concrete aggregate, road material, or building stone or it is crushed for use as agricultural lime.

Soils within the quarry site are part of the **Summit-Eram-Balltown Association**. Each association has a distinctive pattern of soils, relief, and drainage; and consists of one or more major soils and some minor soils. The **Summit-Eram-Balltown Association** is found on ridgetops, side slopes, and foot slopes that are dissected by drainageways and small creeks. Slopes range from 1 to 20 percent. The soil survey identifies approximately 22.5 acres as being disturbed by previous quarry operations.

This association makes up about 22 percent of the county and consists of 41 percent Summit soils, 23 percent Eram soils, 15 percent Balltown soils, and 21 percent minor soils.

Soil Mapping Unit Identification*

Soil Mapping Unit	A Horizon Interval	Subsurface Horizon Interval	Subsoil Interval
63 C Eram 5-9%	0 – 10"	-----	10 – 31"
63 B2 Eram	0 – 8"	-----	8 – 28"
73 E Eram-Balltown	0 – 6"	-----	6 – 21"
54 B Newtonia	0 – 15"	15" – 22"	22 – 60"
55 B Catoosa	0 – 9"	-----	9 – 29"

*Based on general soils information obtained from Soil Survey of Bates County, Missouri; USDA-NRCS (SCS), issued July 1995.

Vegetation across the permit consists of primarily of grassland which has been used as pasture for cattle. Trees are located primarily along the drainages with isolated larger trees scattered throughout the grassland.

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10 CSR 40-10—NATURAL RESOURCES

MISSOURI LAND RECLAMATION COMMISSION Division 40—Land Reclamation Commission

CSR



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE)

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE

May 1, 2001 thru May 1, 2030

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY

(see site description)

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Interfering vegetation and trees will be removed when necessary to allow for operation of mobile equipment. Soil material will be removed and segregated before drilling/blasting or mining occurs to prevent contamination. Soil materials will be windrowed, stockpiled, or redistributed on previously graded areas. Soil removal will be kept at least 10 feet ahead of the excavation area. Equipment used in topsoil removal will include dozers, excavators, front-end loaders, and haul trucks.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Whenever topsoil is not respread immediately, the topsoil will be stockpiled in a stable area within the permit area where it will not be exposed to excessive water, wind erosion or contaminants. Stockpiles and/or windrows will be graded and protected from erosion by establishment of temporary or permanent vegetation and/or mulching (see Revegetation Plan). This will be accomplished during the first normal favorable planting season after construction. Equipment used for topsoil stabilization will include dozers and farm equipment (tractors, discs, seed drills, mulchers).

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Because the limestone outcrops across the permit area or is located within 30 inches of the surface; spoil/overburden generation will be minimal. When spoil is generated, it will be stockpiled or immediately used for backfill material along the final highwalls in areas identified on the Reclamation Plan Map. Spoil material will be protected from excessive erosion

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

(None Anticipated)

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RECLAMATION COMMISSION

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

In general, the operation will radiate out from the existing quarry pit.
(see Site/Operations Map for details)

The quarry will utilize approximately 22.5 acres of pre-law quarry disturbance which will not be permitted or bonded. This area appears on the Soil Survey for Bate- County (USDA). No soil has been salvaged in this area.

YES NO

☐☒

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐☒

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐☒

Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1 Warm Season / Natives	PURPOSE OR LAND USE Topsoiled Areas/Slopes	B. SEEDING OR PLANTING TIME Spring
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DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Seeding equipment will consist of tractors, discs, drags, rangeland seed drills, and broadcast spreaders. Areas which have been topsoiled will be disced and dragged and then seeded with the rangeland drill or broadcast in the case of hard seed, legumes, forbs or extremely small areas.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Big Bluestem	1.8		
Indian grass	2.0		
Little Bluestem	1.5		
Sideoats Grama	0.5		
Switchgrass	0.5		
Wildflowers / Forbs	0.25		

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REVEGETATION MIX #2 Temporary Stabilization	PURPOSE OR LAND USE Stockpiles/Windrows	B. SEEDING OR PLANTING TIME As necessary
--	--	---

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Seeding equipment will consist of tractors, discs, drags, rangeland seed drill and broadcast spreaders. Stockpiles/windrows will be graded and/or dragged until smooth and then seeded by drilling (large areas) or broadcasting.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Annual Ryegrass*	15#'s/ac.		
Wheat*	30#'s/ac.		
Oats*	30#'s/ac.		
Perennial Ryegrass*	15#'s/ac.		
*Only one species will be used.			

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

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Chapter 10—Permit and Performance Requirements for Industrial
Mineral Open Pit and In-Stream Sand and Gravel Operations

MISSOURI LAND RECLAMATION COMMISSION
CSR 40-10



B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Because the limestone outcrops at the surface or is located within 3 feet of the surface, grading will be limited to highwall areas designated for backfilling and stockpile areas. Affected areas will be graded to a free draining topography suitable for the intended post-mine use. Slopes in backfilled areas will be no steeper than 33% (3:1).

It is anticipated that the floor of the reclaimed industrial area will consist of solid rock or graded crushed rock/mine waste.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Backfilling and grading of designated highwall areas will occur following the completion of mining in an area, or within 12 months after the expiration or renewal of the permit under which surface mine disturbance occurred unless the area is needed as part of the active operations.

REPLACEMENT OF TOPSOIL

Topsoil will be replaced when an area has been backfilled and/or graded and weather conditions allow for revegetation and/or site stabilization.

REVEGETATION

Revegetation (seeding/planting) will occur following topsoil replacement and shall be completed within 24 months after expiration or renewal with establishment of vegetation by the second growing season unless an area is needed as part of the active operation.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

(12 inches)

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

90 acres

Development (residential, industrial, and recreational)
(Industrial)

175 acres

Water impoundments (for wildlife, agricultural, or development)

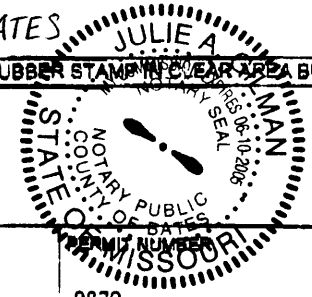
+41 acres

MO 780-1327 (12-91)

PAGE 4 OF 5

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intends to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.790, RSMO 2001, and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed post-mining land uses.
4. I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed seed mixtures.
5. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Carl F. [Signature]</i>		TITLE <i>Co-Owner</i>		DATE <i>7-31-03</i>	
NOTARY PUBLIC/BOSSER SEAL	STATE <i>MISSOURI</i>		COUNTY (OR CITY OF ST. LOUIS) <i>BATES</i>		
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>31st</i> DAY OF <i>July</i> , <i>19 2003</i>		USE RUBBER STAMP IN CLEAR AREA BELOW		
	NOTARY PUBLIC SIGNATURE <i>Julie A. Gilman</i>	MY COMMISSION EXPIRES <i>6-10-05</i>			
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>Julie A. Gilman</i>				
FOR DEPARTMENT USE ONLY: APPROVED BY <i>[Signature]</i>			DATE APPROVED <i>9-24-03</i>		0879

MO 780-1327 (C1-C2)

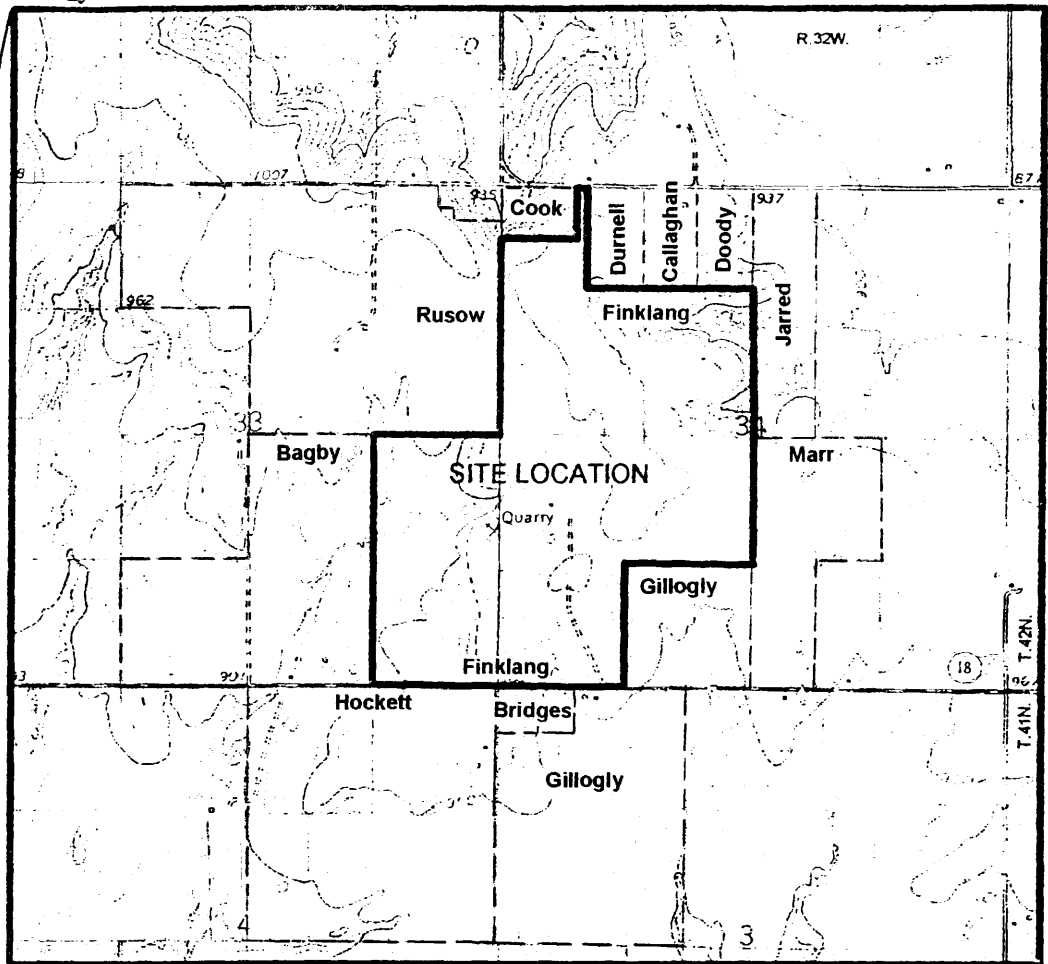
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MISSOURI LAND
RECLAMATION COMMISSION

Scale: 1" = 2000'



E/2 of SE/4 of Sec. 33 & portion of W/2 of Sec. 34
Township 42N. Range 32W.



MISSOURI

Bates County

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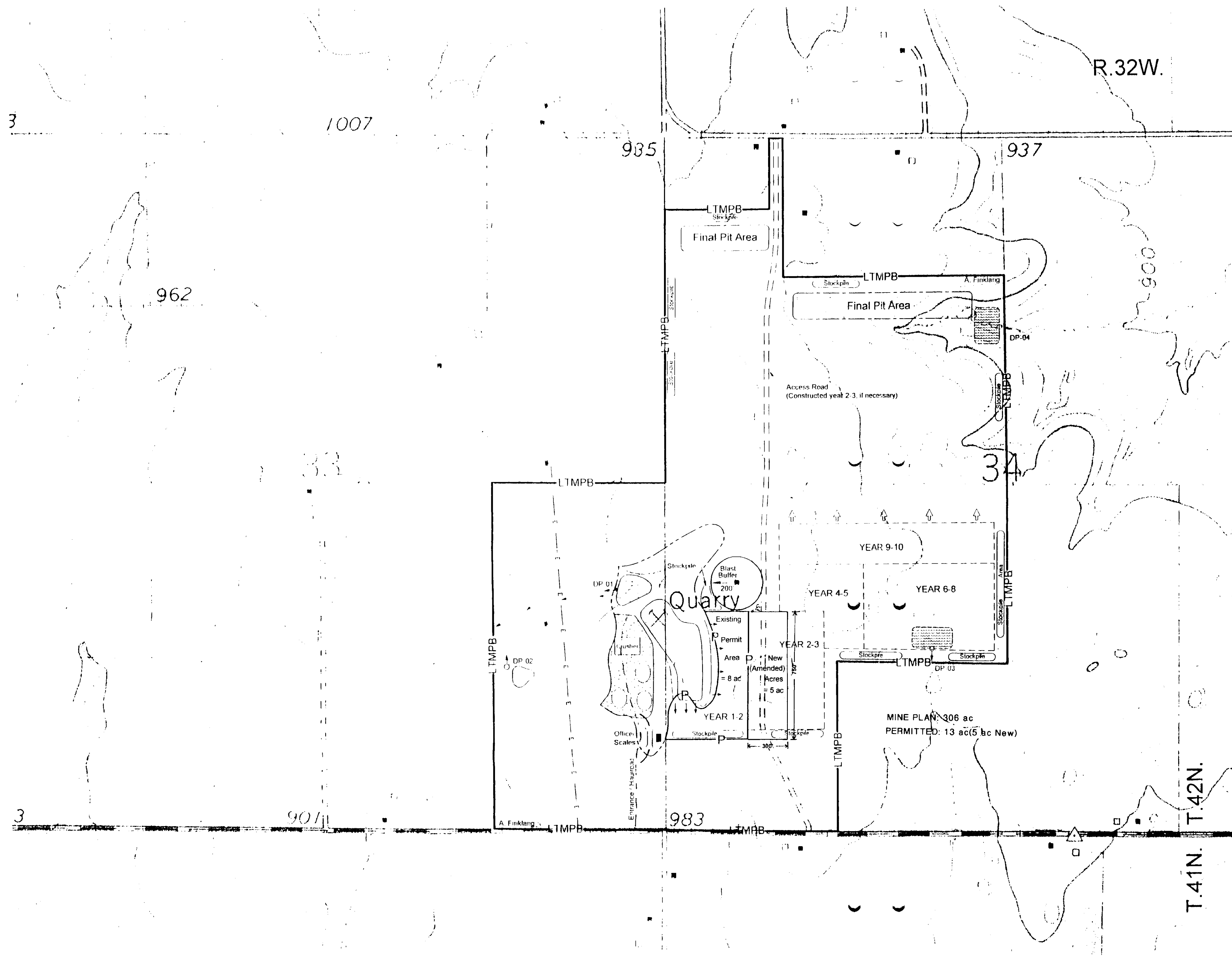
ADRIAN QUARRY LLC.

Landownership Map

July 2003

modified from:





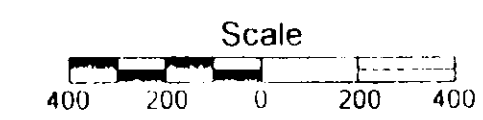
- Legend
- LTMPB— Long Term Mining Plan Map
 - P— Permit Boundary
 - - - - - Future Mining Area
 - Water Control Structures / Discharge Point
 - Proposed Water Control Structures / Discharge Point
 - Stockpile Topsoil / Overburden Stockpile Area
 - Crushing / Stockpile Area
 - - - - - Pre-Law Quarry Disturbance (± 22.5 ac.)
 - Existing Pond
 - Proposed Pond
 - Gravel Pad

Green File

Adrian Quarry, LLC
5 acre Amendment Request
January 2004

prepared by: GREDELL Engineering Resources

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RECLAMATION COMMISSION



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ADRIAN ROCK, INC ADRIAN ROCK #1 OPERATIONS MAP PERMIT NO. _____			
Drawn by	Date	Scale	Sheet
DDB	3/01	1" = 400'	